EXHIBIT A

Technical Exhibit

TECHNICAL EXHIBIT
IN SUPPORT OF PETITION FOR RECONSIDERATION IN MB DOCKET NO. 87-268
ADVANCED TELEVISION SYSTEMS AND THEIR IMPACT UPON THE
EXISTING TELEVISION BROADCAST SERVICE
TELEVISION STATION KTVU
OAKLAND, CALIFORNIA

Technical Exhibit

This technical exhibit was prepared in support of the *Petition for Reconsideration* for Television Station KTVU. KTVU operates on Channel 56 DTV, Channel 2 Analog at Oakland, California. KTVU has been ordered to Channel 44 for post-transition operation. As KTVU will operate on an entirely new channel, KTVU is required to operate with a new master antenna system mounted atop the *Sutro Tower*, where the current, but soon to be replaced, antenna antenna systems are located. Due to the different channels, antenna systems, and radiation center, there is an antenna pattern mismatch.

Therefore, for station KTVU to minimize its loss of service within its analog Grade B coverage contour, it must operate at 500 kilowatts/512 meters, and such operation will not cause more than 0.5% interference, compared to its present DTV allotment, to any other allotment. Attached as Figure 1 is a coverage map showing the herein proposed post-transition facility does not have a noise-limited contour extending beyond its Grade B analog contour.

Proposed Channel 44 Table of Allotment Parameters

It is requested that the Commission modify the proposed Appendix B DTV Table of Allotment specifications to the following:

Facility ID	State & City		NTSC	DTV								
			Chan	Chan	ERP (kW)	HAAT (m)	Antenna ID	Latitude (DDMMSS)	Longitude (DDDMMSS)	Area (sq km)	Population (thousand)	Percent IX Received
35703	CA	Oakland	2	44	500	513	Appendix	374519	1222706	25609	6365	0.0

Contained within the Appendix is the proposed post-transition directional antenna pattern and tabulation.

Certification

KTVU certified on its FCC Form 381, Pre-Election Certification Form[1], that it will operate its post-transition DTV station pursuant to its construction permit.[2] From Commission's published Table II of 1998 Station NTSC and DTV Replication Information, the initial Channel 56 KTVU DTV replication facility served 6,521,874 persons over an area of 33,985.0 km^2. These values compare the herein proposed post-transition facility which serves 6,365,000 persons over an area of 25,609 km^2.

It is furthermore noted that the proposed Channel 44 post-transition allotment does not create any interference to other post-transition stations in excess of 0.5% based upon the 2000 Census. Figure 2 is a tabulation of the allocation study performed for the Channel 44 post-transition facility.

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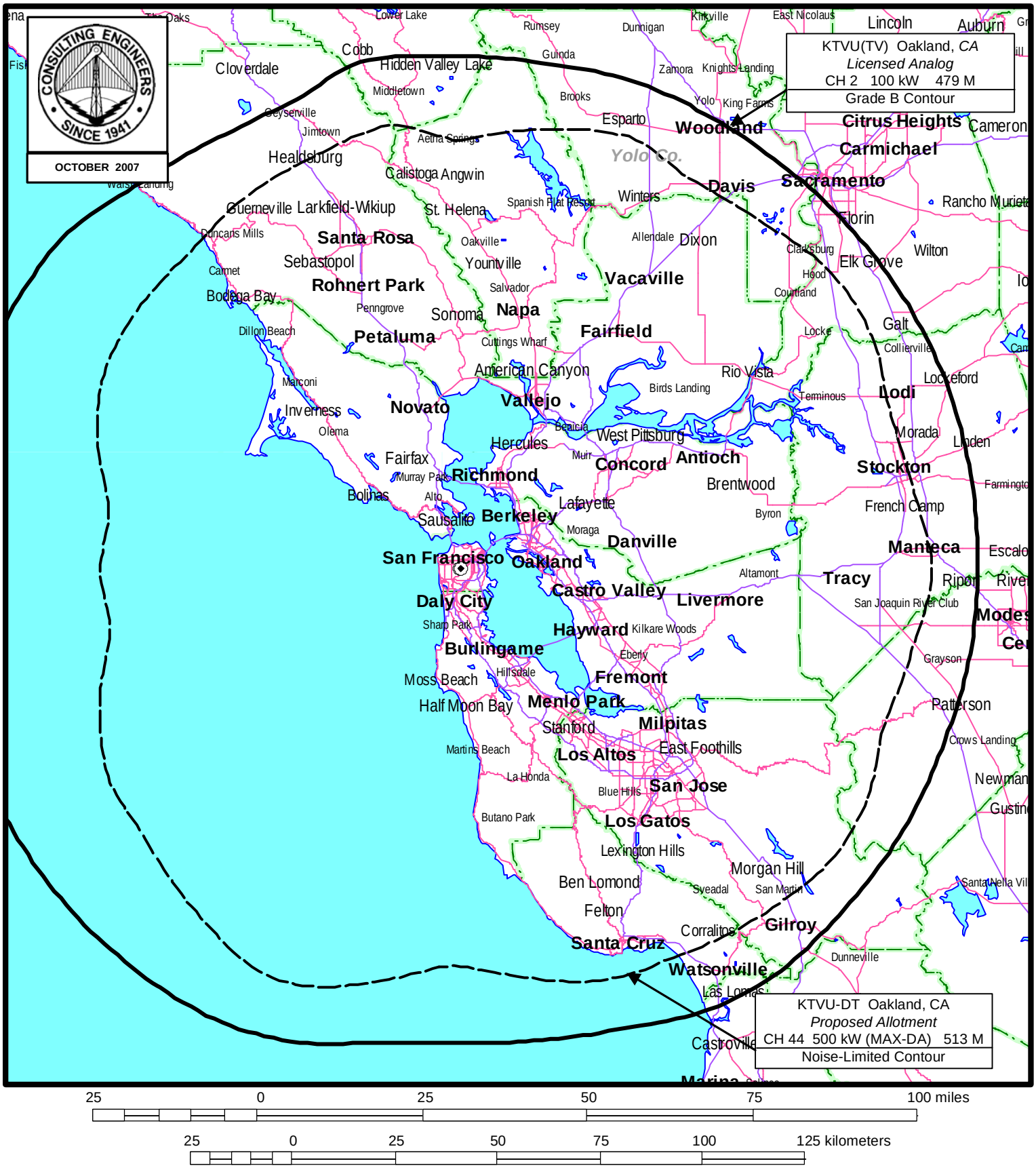
October 25, 2007

[1] See FCC File Number: BCERCT-20041103ADO.
[2] See FCC File Number: BPCDT-20040312AGG.

Figure 1



PREDICTED COVERAGE CONTOURS

TELEVISION STATION KTVU
OAKLAND, CALIFORNIA

du Treil, Lundin & Rackley, Inc. Sarasota, Florida

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OET-69 Analysis

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Percent allowed new interference:   0.500
Percent allowed new interference to Class A:   0.500
 Census data selected 2000

 Post Transition Data Base Selected
/export/home/cdbs/tvdb.sff_G
              TV INTERFERENCE and SPACING ANALYSIS PROGRAM


 Date: 10-25-2007    Time: 14:00:09

 Record Selected for Analysis

 KTVU     USERRECORD-01               OAKLAND              CA US
 Channel 44 ERP 500.   kW   HAAT  518. m  RCAMSL 00544 m
 Latitude 037-45-19  Longitude 0122-27-06
 Status APP       Zone 2    Border
 Dir Antenna Make usr  Model 00000000006018  Beam tilt N  Ref Azimuth 0.

 Cell Size for Service Analysis 2.0 km/side

 Distance Increments for Longley-Rice Analysis 1.00 km

 Facility does not meet maximum height/power limits
 Channel 44  ERP =  500.00  HAAT =  518.

    Azimuth     ERP        HAAT   41.0 dBu F(50,90)
     (Deg)      (kW)       (m)        (km)
      0.0      171.698     518.6       99.5
     45.0      411.324     529.0      108.2
     90.0      463.685     532.9      109.6
    135.0      411.324     525.7      108.0
    180.0      171.698     426.8       92.7
    225.0      132.098     535.5       98.5
    270.0       20.604     538.0       83.7
    315.0      132.098     537.6       98.7


                   Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

                   Class A Evaluation Complete


                   SPACING VIOLATION FOUND BETWEEN STATION

 KTVU     44 OAKLAND              CA USERRECORD01


 and station


 SHORT TO: KTVU     44 OAKLAND              CA BLCDT     20040915AEI
 037-45-19  0122-27- 6
 Req. separation 223.7 Actual separation   0.0 Short 223.7 km

                   LANDMOBILE SPACING VIOLATIONS FOUND

                   NONE

 Proposed facility OK to FCC Monitoring Stations
 Proposed facility OK toward West Virginia quite zone
 Proposed facility OK toward Table Mountian
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 Proposed facility is beyond the Canadian coordination distance
 Proposed facility is beyond the Mexican coordination distance
 Proposed station is OK toward AM broadcast stations

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                        Start of Interference Analysis

              Proposed Station
Channel     Call         City/State              ARN
   44      KTVU       OAKLAND CA                 USERRECORD01

     Stations Potentially Affected by  Proposed Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 43   KCSM-TV  SAN MATEO CA               0.0  LIC    BLEDT     -20030822AFZ
 44   KRXI-TV  RENO NV                  299.3  CP MOD BMPCDT    -20020724AAU
 45   KBCW     SAN FRANCISCO CA           0.0  LIC    BLCDT     -20020709AAQ

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     Analysis of Interference to Affected Station   1

Analysis of current record
Channel     Call           City/State        Application Ref. No.
   43      KCSM-TV    SAN MATEO CA              BLEDT     -20030822AFZ

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 43   KHSL-TV  CHICO CA                253.1  CP     BDTV      -00000268
 43   KGMC     CLOVIS CA               302.0  LIC    BLCDT     -20020507AAJ
 44   KTVU     OAKLAND CA                0.0  APP    USERRECORD-01

 Total scenarios =   1

Result key:        1
Scenario        1  Affected station        1
Before Analysis

Results for: 43A CA SAN MATEO            BLEDT     20030822AFZ  LIC
   HAAT  428.0 m, ATV ERP  536.0 kW
                                  POPULATION   AREA (sq km)
   within Noise Limited Contour     6850570      27098.1
   not affected by terrain losses   6240615      21829.4
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      151291       1007.9
   lost to ATV IX only               151291       1007.9
   lost to all IX                    151291       1007.9

 Potential Interfering Stations Included in above Scenario     1

43A CA CHICO                BDTV      00000268     CP
43A CA CLOVIS               BLCDT     20020507AAJ  LIC

After Analysis

Results for: 43A CA SAN MATEO            BLEDT     20030822AFZ  LIC
   HAAT  428.0 m, ATV ERP  536.0 kW
                                  POPULATION   AREA (sq km)
   within Noise Limited Contour     6850570      27098.1
   not affected by terrain losses   6240615      21829.4
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      181875       1108.3
   lost to ATV IX only               181875       1108.3
   lost to all IX                    181875       1108.3

 Potential Interfering Stations Included in above Scenario     1

43A CA CHICO                BDTV      00000268     CP
43A CA CLOVIS               BLCDT     20020507AAJ  LIC
44A CA OAKLAND              USERRECORD01           APP

 The following station failed the de minimis interference criteria.
 44D CA OAKLAND              USERRECORD01
 ERP  500.00 kW  HAAT   518.0 m  RCAMSL   544.0 m
 Antenna usr 00000000006018
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 Due to interference to the following station and scenario:     1
 43D CA SAN MATEO            BLEDT     20030822AFZ
 ERP  536.00 kW  HAAT   428.0 m  RCAMSL   459.0 m
 Antenna CDB 00000000044617

 Percent Service lost without proposal:     0.0  to BLEDT     20030822AFZ
 Percent Service lost with proposal:        0.5  to BLEDT     20030822AFZ

Worst case new IX    0.5023% Scenario      1

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     Analysis of Interference to Affected Station   2

Analysis of current record
Channel     Call           City/State        Application Ref. No.
   44      KRXI-TV    RENO NV                   BMPCDT    -20020724AAU

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 43   KHSL-TV  CHICO CA                158.0  CP     BDTV      -00000268
 44   KTVU     OAKLAND CA              299.3  APP    USERRECORD-01

 Total scenarios =   1

Result key:        2
Scenario        1  Affected station        2
Before Analysis

Results for: 44A NV RENO                BMPCDT    20020724AAU  CP
   HAAT  836.0 m, ATV ERP 1000.0 kW
                                  POPULATION   AREA (sq km)
   within Noise Limited Contour      599298      34711.8
   not affected by terrain losses    403590      19358.6
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV           0          0.0
   lost to ATV IX only                    0          0.0
   lost to all IX                         0          0.0

 Potential Interfering Stations Included in above Scenario     1

After Analysis

Results for: 44A NV RENO                BMPCDT    20020724AAU  CP
   HAAT  836.0 m, ATV ERP 1000.0 kW
                                  POPULATION   AREA (sq km)
   within Noise Limited Contour      599298      34711.8
   not affected by terrain losses    403590      19358.6
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV         163         56.0
   lost to ATV IX only                  163         56.0
   lost to all IX                       163         56.0

 Potential Interfering Stations Included in above Scenario     1

44A CA OAKLAND              USERRECORD01           APP

Percent new IX =    0.0404%

Worst case new IX    0.0404% Scenario      1

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     Analysis of Interference to Affected Station   3

Analysis of current record
Channel     Call           City/State        Application Ref. No.
   45      KBCW       SAN FRANCISCO CA          BLCDT     -20020709AAQ

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 45   KUVI-TV  BAKERSFIELD CA           419.5  LIC    BLCDT     -20020906ABI
 46   KQCA     STOCKTON CA              101.5  CP MOD BMPCDT    -20020626AAA
 44   KTVU     OAKLAND CA                 0.0  APP    USERRECORD-01
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 Total scenarios =   1

Result key:        3
Scenario        1  Affected station        3
Before Analysis

Results for: 45A CA SAN FRANCISCO        BLCDT     20020709AAQ  LIC
   HAAT  446.0 m, ATV ERP  400.0 kW
                                  POPULATION   AREA (sq km)
   within Noise Limited Contour     6775478      26263.4
   not affected by terrain losses   6182743      21054.9
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      176924       1301.1
   lost to ATV IX only               176924       1301.1
   lost to all IX                    176924       1301.1

 Potential Interfering Stations Included in above Scenario     1

46A CA STOCKTON             BMPCDT    20020626AAA  CP

After Analysis

Results for: 45A CA SAN FRANCISCO        BLCDT     20020709AAQ  LIC
   HAAT  446.0 m, ATV ERP  400.0 kW
                                  POPULATION   AREA (sq km)
   within Noise Limited Contour     6775478      26263.4
   not affected by terrain losses   6182743      21054.9
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      201093       1389.5
   lost to ATV IX only               201093       1389.5
   lost to all IX                    201093       1389.5

 Potential Interfering Stations Included in above Scenario     1

46A CA STOCKTON             BMPCDT    20020626AAA  CP
44A CA OAKLAND              USERRECORD01           APP

Percent new IX =    0.4024%

Worst case new IX    0.4024% Scenario      1

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     Analysis of Interference to Affected Station   4

Analysis of current record
Channel     Call           City/State        Application Ref. No.
   44      KTVU       OAKLAND CA               USERRECORD-01

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 43   KCSM-TV  SAN MATEO CA               0.0  LIC    BLEDT     -20030822AFZ
 44   KRXI-TV  RENO NV                  299.3  CP MOD BMPCDT    -20020724AAU
 45   KBCW     SAN FRANCISCO CA           0.0  LIC    BLCDT     -20020709AAQ

 Total scenarios =   1

Result key:        4
Scenario        1  Affected station        4
Before Analysis

Results for: 44A CA OAKLAND              USERRECORD01           APP
   HAAT  518.0 m, ATV ERP  500.0 kW
                                  POPULATION   AREA (sq km)
   within Noise Limited Contour     7213631      31363.5
   not affected by terrain losses   6365475      25608.9
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV           8          8.0
   lost to ATV IX only                    8          8.0
   lost to all IX                         8          8.0

 Potential Interfering Stations Included in above Scenario     1

44A NV RENO                 BMPCDT    20020724AAU  CP

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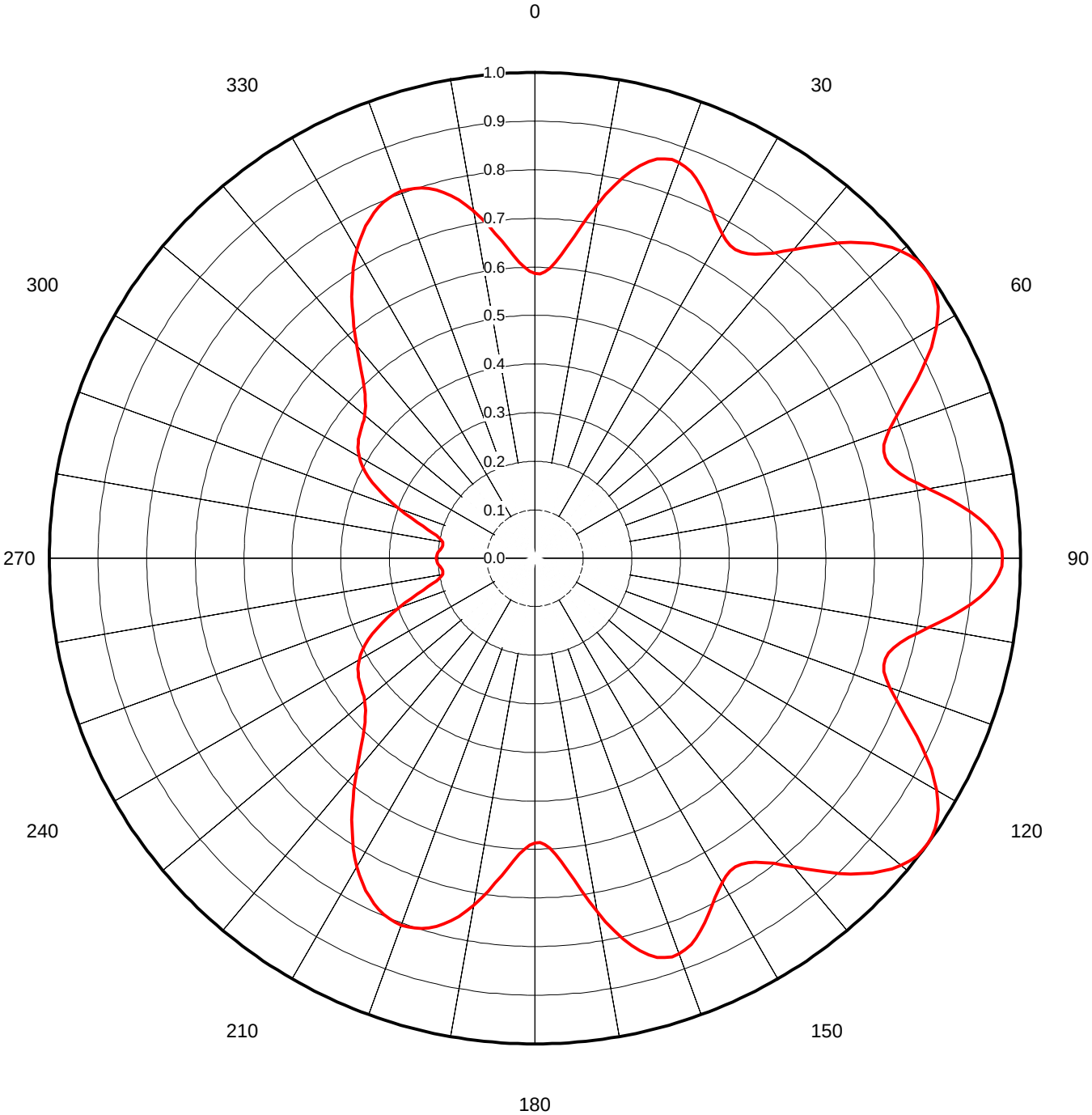
APPENDIX

PROPOSED CHANNEL 44
POST-TRANSITION DIRECTIONAL ANTENNA
PATTERN AND TABULATION

Proposal Number	**EM-070924-1**		
Date	**24-Sep-07**		
Call Letters	**KTVU-DT**	Channel	**44**
Location	**San Francisco, CA**		
Customer			
Antenna Type	**TUM-C5SP-14/60H-2-T-R**		

AZIMUTH PATTERN

Gain	**2.00**	**(3.01 dB)**	
Calculated / Measured	**Calculated**		
Frequency	**653.00 MHz**		
Drawing #	**TUM-C5SP-6530**		



Dielectric

Proposal Number	**EM-070924-1**
Date	**24-Sep-07**
Call Letters	**KTVU-DT** Channel **44**
Location	**San Francisco, CA**
Customer	
Antenna Type	**TUM-C5SP-14/60H-2-T-R**

TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing #: **TUM-C5SP-6530**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.586	45	0.919	90	0.963	135	0.919	180	0.586	225	0.497	270	0.203	315	0.497
1	0.586	46	0.935	91	0.961	136	0.902	181	0.591	226	0.487	271	0.203	316	0.510
2	0.590	47	0.950	92	0.956	137	0.884	182	0.599	227	0.477	272	0.202	317	0.523
3	0.598	48	0.963	93	0.947	138	0.866	183	0.610	228	0.469	273	0.200	318	0.538
4	0.611	49	0.974	94	0.935	139	0.848	184	0.624	229	0.463	274	0.198	319	0.554
5	0.627	50	0.984	95	0.920	140	0.830	185	0.640	230	0.457	275	0.196	320	0.571
6	0.646	51	0.991	96	0.903	141	0.813	186	0.657	231	0.453	276	0.194	321	0.588
7	0.668	52	0.996	97	0.884	142	0.798	187	0.674	232	0.450	277	0.192	322	0.605
8	0.691	53	0.999	98	0.864	143	0.784	188	0.692	233	0.447	278	0.191	323	0.623
9	0.715	54	1.000	99	0.844	144	0.773	189	0.709	234	0.444	279	0.192	324	0.640
10	0.739	55	0.998	100	0.823	145	0.765	190	0.725	235	0.441	280	0.193	325	0.658
11	0.762	56	0.994	101	0.804	146	0.760	191	0.740	236	0.438	281	0.196	326	0.674
12	0.784	57	0.988	102	0.787	147	0.758	192	0.753	237	0.434	282	0.201	327	0.690
13	0.804	58	0.979	103	0.773	148	0.759	193	0.765	238	0.430	283	0.208	328	0.706
14	0.822	59	0.968	104	0.761	149	0.764	194	0.776	239	0.425	284	0.217	329	0.720
15	0.837	60	0.955	105	0.754	150	0.771	195	0.785	240	0.418	285	0.228	330	0.733
16	0.850	61	0.941	106	0.750	151	0.780	196	0.792	241	0.411	286	0.240	331	0.746
17	0.859	62	0.924	107	0.751	152	0.791	197	0.797	242	0.402	287	0.253	332	0.757
18	0.865	63	0.906	108	0.756	153	0.803	198	0.801	243	0.392	288	0.267	333	0.768
19	0.868	64	0.887	109	0.765	154	0.816	199	0.803	244	0.381	289	0.282	334	0.777
20	0.867	65	0.868	110	0.777	155	0.828	200	0.804	245	0.369	290	0.297	335	0.784
21	0.864	66	0.848	111	0.792	156	0.839	201	0.803	246	0.356	291	0.313	336	0.791
22	0.858	67	0.828	112	0.809	157	0.850	202	0.800	247	0.342	292	0.328	337	0.796
23	0.850	68	0.809	113	0.828	158	0.858	203	0.796	248	0.328	293	0.342	338	0.800
24	0.839	69	0.792	114	0.848	159	0.864	204	0.791	249	0.313	294	0.356	339	0.803
25	0.828	70	0.777	115	0.868	160	0.867	205	0.784	250	0.297	295	0.369	340	0.804
26	0.816	71	0.765	116	0.887	161	0.868	206	0.777	251	0.282	296	0.381	341	0.803
27	0.803	72	0.756	117	0.906	162	0.865	207	0.768	252	0.267	297	0.392	342	0.801
28	0.791	73	0.751	118	0.924	163	0.859	208	0.757	253	0.253	298	0.402	343	0.797
29	0.780	74	0.750	119	0.941	164	0.850	209	0.746	254	0.240	299	0.411	344	0.792
30	0.771	75	0.754	120	0.955	165	0.837	210	0.733	255	0.228	300	0.418	345	0.785
31	0.764	76	0.761	121	0.968	166	0.822	211	0.720	256	0.217	301	0.425	346	0.776
32	0.759	77	0.773	122	0.979	167	0.804	212	0.706	257	0.208	302	0.430	347	0.765
33	0.758	78	0.787	123	0.988	168	0.784	213	0.690	258	0.201	303	0.434	348	0.753
34	0.760	79	0.804	124	0.994	169	0.762	214	0.674	259	0.196	304	0.438	349	0.740
35	0.765	80	0.823	125	0.998	170	0.739	215	0.658	260	0.193	305	0.441	350	0.725
36	0.773	81	0.844	126	1.000	171	0.715	216	0.640	261	0.192	306	0.444	351	0.709
37	0.784	82	0.864	127	0.999	172	0.691	217	0.623	262	0.191	307	0.447	352	0.692
38	0.798	83	0.884	128	0.996	173	0.668	218	0.605	263	0.192	308	0.450	353	0.674
39	0.813	84	0.903	129	0.991	174	0.646	219	0.588	264	0.194	309	0.453	354	0.657
40	0.830	85	0.920	130	0.984	175	0.627	220	0.571	265	0.196	310	0.457	355	0.640
41	0.848	86	0.935	131	0.974	176	0.611	221	0.554	266	0.198	311	0.463	356	0.624
42	0.866	87	0.947	132	0.963	177	0.598	222	0.538	267	0.200	312	0.469	357	0.610
43	0.884	88	0.956	133	0.950	178	0.590	223	0.523	268	0.202	313	0.477	358	0.599
44	0.902	89	0.961	134	0.935	179	0.586	224	0.510	269	0.203	314	0.487	359	0.591